

Amendment to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1 (currently amended): A centralized network storage system, comprising:

at least one diskless client, comprising a transforming device, which ~~receives~~ extracts a hard disk access command from at least one interface signal sent from the diskless client ~~and~~ packs the hard disk access command and an identity number relative to the diskless client into a data package, and encapsulates the data package into at least one network packet to be sent through a network, wherein the at least one interface signal ~~hard disk access command~~ complies with a peripheral interface standard allowing for connection of a peripheral device to a PC; and

a server, connected to the at least one diskless client through the network, comprising a centralized storage device divided into at least one storage area, each of which respectively corresponds to each of the diskless clients; wherein, after receiving the at least one network packet, ~~and unpacking the package to retrieve the hard disk access command contained therein,~~ the server reconstructs the data package from the at least one network packet, extracts the hard disk access command and the identity number contained in the data package, and implements a requested disk access process ~~to execute a read or write operation corresponding to the hard disk access command~~ on the storage area relative to the diskless client represented by ~~an~~ the identity number according to the hard disk access command contained in the package.

Claim 2 (currently amended): The centralized network storage system of claim 1, wherein the transforming device is an interface card installed in an expansion slot of the diskless client , and the expansion slot complies with the peripheral interface standard.

Claim 3 (currently amended): The centralized network storage system of claim [[2]] 1, wherein the peripheral interface standard expansion slot is an Integrated Device Electronics (IDE) standard slot.

Claim 4 (currently amended): The centralized network storage system of claim [[2]] 1, wherein the peripheral interface standard expansion slot is a Peripheral Component Interconnect (PCI) standard slot.

Claim 5 (currently amended): The centralized network storage system of claim 1, wherein the network and the at least one network packet diskless clients are connected to the server through conform to an Ethernet protocol standard.

Claim 6 (currently amended): The centralized network storage system of claim 1, wherein the network diskless clients are connected to the server through is a wireless network transmission protocol.

Claims 7-9: (cancelled)

Claim 10 (currently amended): A transforming device used in a centralized network storage system and installed in a diskless client, wherein the transforming device is connected to a server through a network, the transforming device comprising:

an interface circuit, used to receive at least one interface signal ~~a hard disk access command~~ from the diskless client and extract a hard disk access command from the at least one interface signal, wherein the at least one interface signal complies with a peripheral interface standard allowing for connecting of a peripheral device to a PC;

a logical circuit, connected to the interface circuit ~~to receive the hard disk access command and~~ for packing both the hard disk access command and an identity number unique to the diskless client into a data package; and

a network controller, connected to the logical circuit ~~to receive the package~~ for encapsulating the data package into at least one network packet

and deliver the at least one network packet ~~it~~ to the server through the network[[s]] ;

wherein, after receiving the at least one network packet, the server reconstructs the data package from the at least one network packet, extracts the hard disk access command and the identity number contained in the data package, and implements a requested disk access process on a storage area relative to the diskless client represented by the identity number according to the hard disk access command.

Claim 11 (currently amended): The transforming device of claim 10, wherein the transforming device is an interface card installed in an expansion slot of the diskless client , and the expansion slot complies with the peripheral interface standard.

Claim 12 (currently amended): The transforming device of claim ~~[[11]]~~ 10, wherein the peripheral interface standard ~~expansion slot~~ is an Integrated Device Electronics (IDE) standard slot ~~and the interface circuit receives the hard disk access command through the IDE slot.~~

Claim 13 (currently amended): The transforming device of claim ~~[[11]]~~ 10, wherein the peripheral interface standard ~~expansion slot~~ is a Peripheral Component Interconnect (PCI) standard slot ~~and the interface circuit receives the hard disk access command through the PCI slot.~~

Claim 14 (new): The centralized network storage system of claim 4, wherein the at least one interface signal complying with the PCI standard is first transformed to at least one IDE signal which complies with the IDE standard by the transforming device, and the hard disk access command is then extracted from the at least one IDE signal by the transforming device.

Claim 15 (new): The centralized network storage system of claim 1, wherein the hard disk command is a read, write, or controlling command, and the requested

disk access process is to execute a read, write, or controlling operation on the storage area according to the hard disk command.

Claim 16 (new): The transforming device of claim 13, wherein the interface circuit comprises:

a PCI interface, coupled to the diskless client, for receiving the at least one interface signal complying with the PCI standard; and

an IDE controller, coupled to the PCI interface, for transforming the at least one interface signal into at least one IDE signal which complies with the IDE standard, and then extracting the hard disk access command from the at least one IDE signal.

Claim 17 (new): The transforming device of claim 10, wherein the hard disk command is a read, write, or controlling command, and the requested disk access process is to execute a read, write, or controlling operation on the storage area according to the hard disk command.